

WHAT IS CLAIMED IS:

1. A DNA segment comprising an AAV *rep* coding sequence operably linked to a promoter, an AAV *cap* coding sequence operably linked to a promoter, an HSV-1 origin of replication and an HSV-1 packaging sequence.
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2. The DNA segment of claim 1, wherein said AAV *rep* coding sequence or said AAV *cap* coding sequence is operably linked to a p5, p19 or p40 promoter.
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3. The DNA segment of claim 2, wherein said AAV *rep* coding sequence and said AAV *cap* coding sequence are operably linked to a p5, p19 or p40 promoter.
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4. The DNA segment of claim 1, comprised within a recombinant herpes simplex virus vector.
- 20 5. The DNA segment of claim 1, comprised within a recombinant herpes simplex virus capsid.
- 25 6. A recombinant herpes simplex virus vector comprising an AAV *rep* coding sequence operably linked to a promoter and an AAV *cap* coding sequence operably linked to a promoter.
- 30 7. The recombinant vector of claim 6, wherein said AAV *rep* coding sequence or said AAV *cap* coding sequence is operably linked to a p5, p19 or p40 promoter.

8. The recombinant vector of claim 6, in which a non-essential HSV gene is altered.

9. The recombinant vector of claim 8, in which a non-essential HSV gene is altered to increase expression.

10. The recombinant vector of claim 9, in which said non-essential HSV gene encodes ICP8.

11. The recombinant vector of claim 8, in which a non-essential HSV gene is mutated or substantially deleted.

12. The recombinant vector of claim 11, in which a non-essential HSV gene is substantially deleted.

13. The recombinant vector of claim 12, in which said non-essential HSV gene encodes ICP27 or glycoprotein H.

14. The recombinant vector of claim 13, in which said non-essential HSV gene encodes ICP27.

15. The recombinant vector of claim 6, comprised within a recombinant herpes simplex virus.

16. A recombinant herpes simplex virus comprising an AAV *rep* coding sequence operably linked to a promoter and an AAV *cap* coding sequence operably linked to a promoter.

17. The recombinant virus of claim 16, wherein said AAV *rep* coding sequence or said AAV *cap* coding sequence is operably linked to a p5, p19 or p40 promoter.

18. The recombinant virus of claim 16, in which a non-essential HSV gene is altered.

19. The recombinant virus of claim 16, wherein said recombinant virus is the d27.1rc virus.

20. A kit comprising, in a suitable container, a DNA segment comprising an AAV *rep* coding sequence operably linked to a promoter, an AAV *cap* coding sequence operably linked to a promoter, an HSV-1 origin of replication and an HSV-1 packaging sequence.

21. The kit of claim 21, further comprising an HSV-1 helper virus.

22. The kit of claim 21, in which a non-essential gene of said HSV-1 helper virus is altered.

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24. The kit of claim 21, wherein said HSV-1 helper virus is the d27.1 HSV-1 virus.

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25. A kit comprising, in a suitable container, a recombinant herpes simplex virus vector comprising an AAV *rep* coding sequence operably linked to a promoter and an AAV *cap* coding sequence operably linked to a promoter.

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26. The kit of claim 25, wherein said recombinant herpes simplex virus vector is comprised in a recombinant herpes simplex virus.

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27. The kit of claim 26, in which a non-essential gene of said recombinant herpes simplex virus is altered.

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28. The kit of claim 26, wherein said recombinant herpes simplex virus is the d27.1rc HSV-1 virus.

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29. A method for preparing a rAAV comprising:

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a) providing an HSV-1 helper virus and a DNA segment comprising an AAV *rep* coding sequence operably linked to a promoter, an AAV *cap* coding sequence operably linked to a promoter, an HSV-1 origin of replication and an HSV-1 packaging sequence to a host cell that comprises a rAAV;

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- b) culturing said cell under conditions effective to produce rAAV in said cell; and
- c) obtaining said rAAV from said cell.

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30. The method of claim 29, wherein said host cell comprises said rAAV integrated into the genome of said cell.

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31. The method of claim 29, wherein said host cell is provided with said rAAV, said HSV-1 helper virus and said DNA segment simultaneously.

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32. The method of claim 29, wherein said host cell is a HeLa, 293 or Vero cell.

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33. The method of claim 29, wherein said rAAV comprises a therapeutic gene.

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34. A recombinant AAV virus produced by the method of claim 29.

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35. A kit comprising, in a suitable container, a recombinant AAV virus produced by the method of claim 29.

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36. A method for preparing a rAAV comprising:

- a) providing a recombinant herpes simplex virus that comprises an AAV *rep* coding sequence operably linked to a promoter and an AAV *cap*

coding sequence operably linked to a promoter to a host cell that comprises a rAAV;

- b) culturing said cell under conditions effective to produce rAAV in said cell; and
- c) obtaining said rAAV from said cell.

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~~37~~. The method of claim 36, wherein said host cell comprises said rAAV integrated into the genome of said cell.

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~~38~~. The method of claim 36, wherein said host cell is provided with said rAAV and said recombinant herpes simplex virus simultaneously.

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~~39~~. The method of claim 36, wherein said rAAV comprises a therapeutic gene.

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~~40~~. A recombinant AAV virus produced by the method of claim 36.

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~~41~~. A kit comprising in a suitable container, a recombinant AAV virus produced by the method of claim 36.

add C1
add C2
add D5